Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-20 (canceled)

Claim 21 (new): A semiconductor device design method 1 for forming a semiconductor device by combining and placing 2 previously registered functional blocks, and determining a 3 wiring pattern in accordance with given logical circuit specifications, and design method comprising: 5 a registration step of previously registering a first 6 functional block having a first conduction type diode 7 diffusion comprising а first conduction type 8 connected to an input pin of the functional block, and a 9 second conduction type well connected to a second power 10 supply or a second conduction type diode comprising a 11 second conduction type diffusion layer connected to the 12 input pin and a first conduction type well connected to a 13 first power supply and a second functional block having the 14 same logic as and the same drive capability as the first 15 functional block but not containing the first or second 16 conduction type diode; 17 a determination step of determining whether or not a 18 wiring conductor conducting to the input pin and a gate 19

- 20 electrode becomes an antenna ratio exceeding an allowed
- antenna ratio in said semiconductor device; and
- a selection step of selectively using the first
- 23 functional block, if said determination step determines
- that the input pin conducts to the gate electrode exceeding
- 25 the antenna ratio.
- 1 Claim 22 (new): A semiconductor device formed by
- 2 combining and placing previously registered functional
- 3 blocks, and determining a wiring pattern in accordance with
- 4 given logical circuit specifications, said semiconductor
- 5 device comprising:
- a first functional block including at least one of:
- 7 a first conduction type diode having a first
- 8 conduction type diffusion layer connected to an input pin
- 9 of the first functional block and a second conduction type
- well connected to a second power supply, and
- a second conduction type diode having a second
- 12 conduction type diffusion layer connected to the input pin
- and a first conduction type well connected to a first power
- 14 supply; and
- a second functional block including the same logic as
- the first functional block but not containing said first or
- 17 second conduction type diode,
- 18 wherein either the first functional block or the
- 19 second functional block is selectively used depending on

- 20 whether or not a wiring conductor conducting to the input
- 21 pin and a gate electrode becomes an antenna ratio exceeding
- 22 an allowed antenna ratio in said semiconductor device.
- 1 Claim 23 (new): A semiconductor device design method
- 2 for forming a semiconductor device by combining and placing
- 3 previously registered functional blocks, and determining a
- 4 wiring pattern in accordance with given logical circuit
- specifications, and design method comprising:
- a registration step of previously registering a first
- 7 functional block having a first conduction type diode
- 8 comprising a first conduction type diffusion layer
- 9 connected to an input pin of the functional block, and a
- 10 second conduction type well connected to a second power
- 11 supply or a second conduction type diode comprising a
- second conduction type diffusion layer connected to the
- input pin and a first conduction type well connected to a
- 14 first power supply and a second functional block having the
- same logic as the first functional block but not containing
- 16 the first or second conduction type diode;
- a determination step of determining whether or not a
- 18 wiring conductor conducting to the input pin and a gate
- 19 electrode becomes an antenna ratio exceeding an allowed
- 20 antenna ratio in said semiconductor device; and
- a selection step of selectively using the first
- 22 functional block, if said determination step determines

- that the input pin conducts to the gate electrode exceeding
- 24 the antenna ratio.
 - 1 Claim 24 (new): A computer-readable recording medium
 - 2 storing the semiconductor device design method as claimed
 - in claim 23 as a program for causing a computer to execute
 - 4 the semiconductor device design method.
 - 1 Claim 25 (new): A semiconductor device design support
 - 2 system for automatically forming a semiconductor device by
 - 3 combining and placing previously registered functional
- 4 blocks, and determining a wiring pattern in accordance with
- 5 given logical circuit specifications, said design support
- 6 system comprising:
- 7 registration means for previously registering a first
- 8 functional block having a first conduction type diode
- 9 comprising a first conduction type diffusion layer
- 10 connected to an input pin of the functional block, and a
- 11 second conduction type well connected to a second power
- 12 supply or a second conduction type diode comprising a
- 13 second conduction type diffusion layer connected to the
- 14 input pin and a first conduction type well connected to a
- 15 first power supply and a second functional block having the
- same logic as the first functional block but not containing
- 17 the first or second conduction type diode;

determination means for determining whether or not a 18 wiring conductor conducting to the input pin and a gate 19 electrode becomes an antenna ratio exceeding an allowed 20 antenna ratio in said semiconductor device; and 21 selectively using the first selection means for 22 functional block, if said determination step determines 23 that the input pin conducts to the gate electrode exceeding 24 the antenna ratio. 25